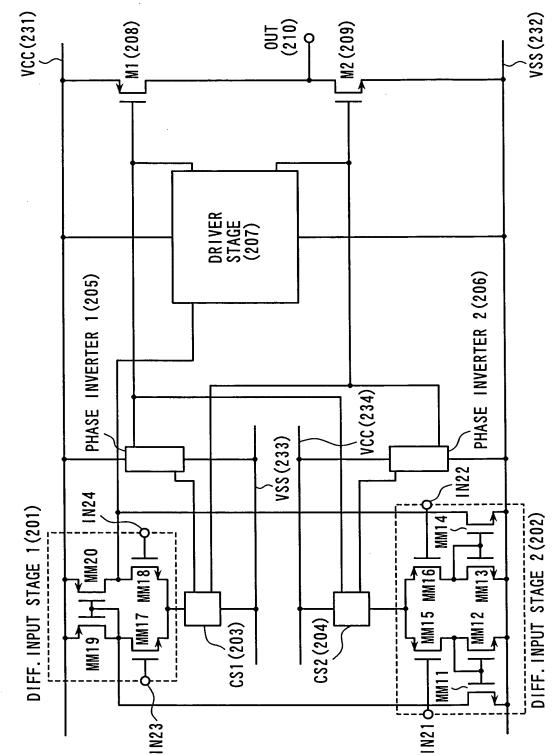
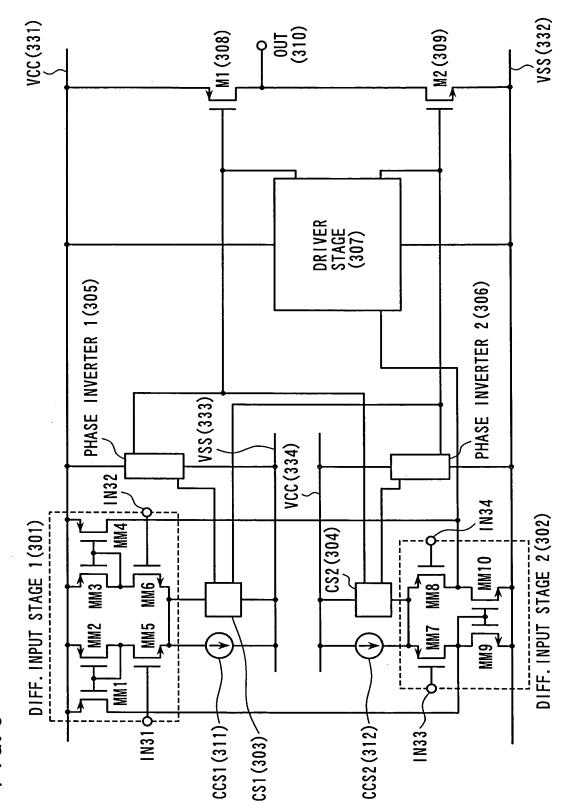
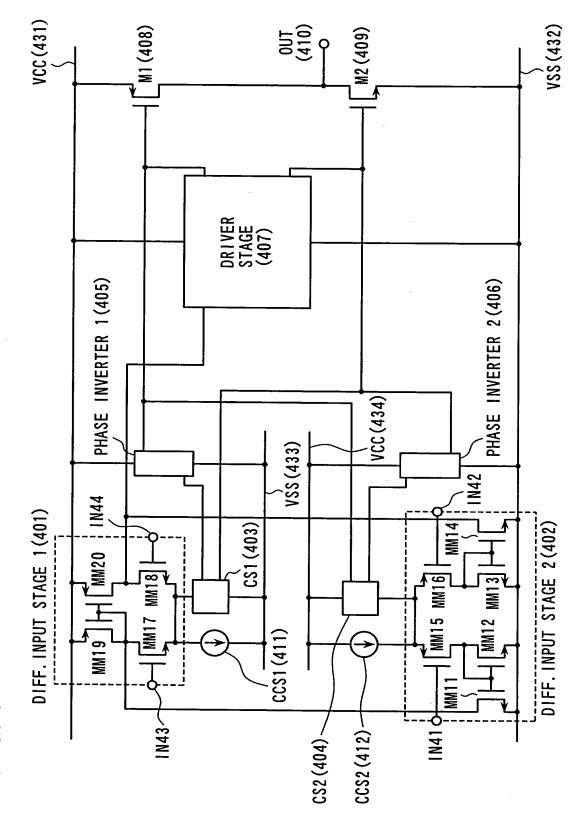


F16.

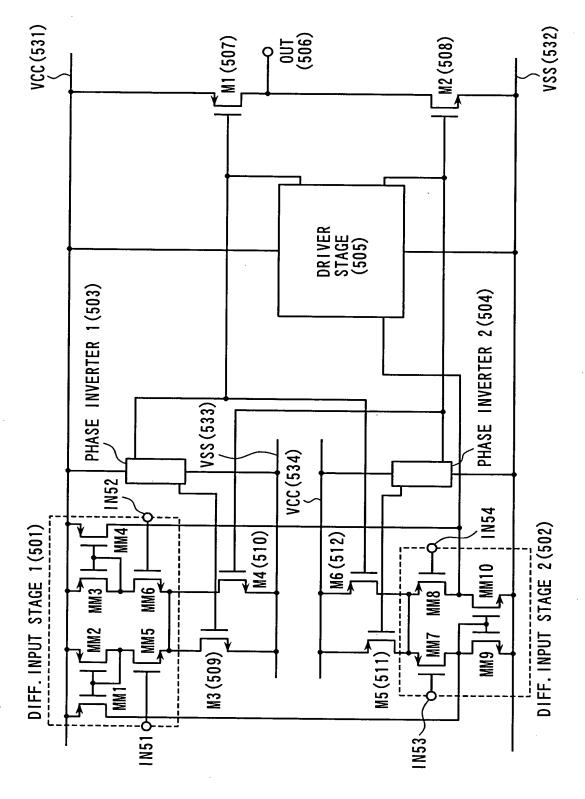


F1G. 2

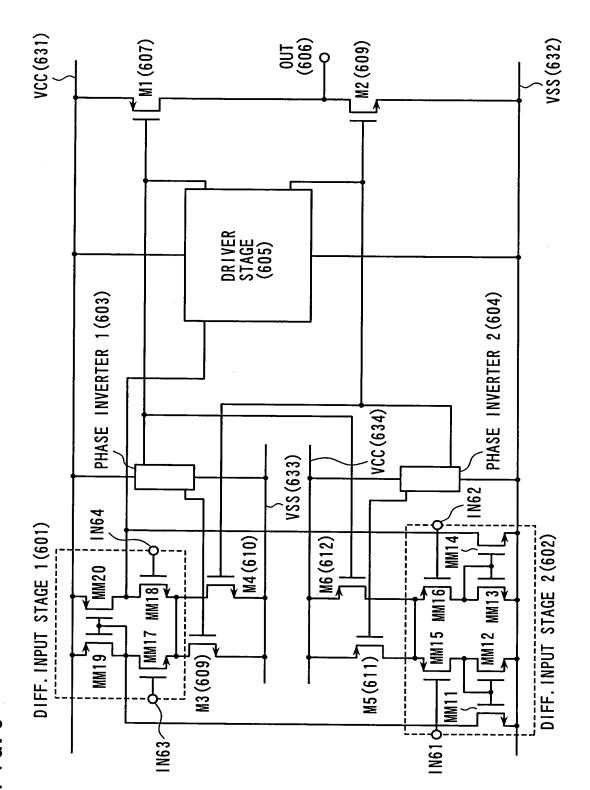




F1G. 4

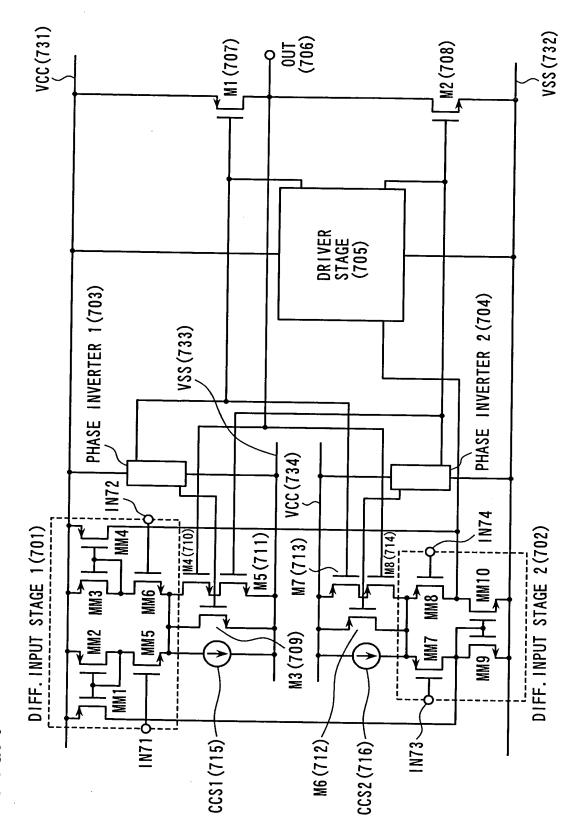


F1G. 5

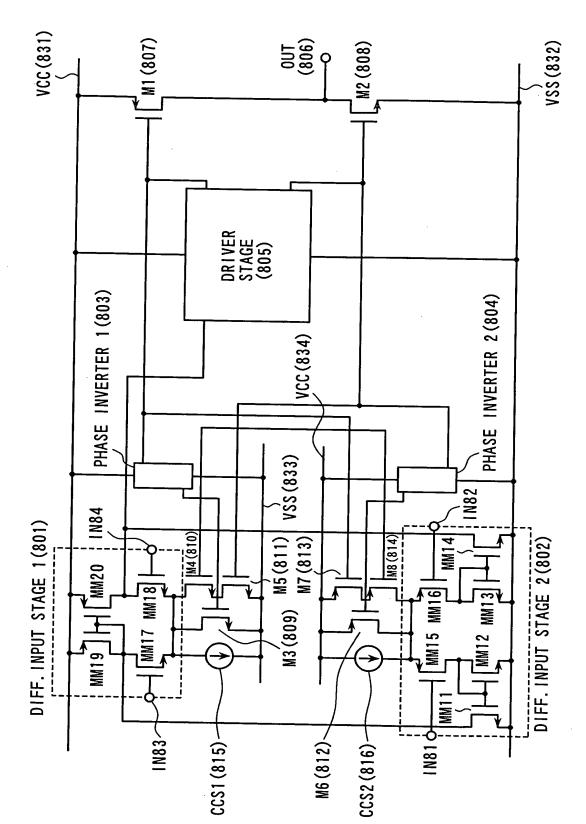


F1G.6

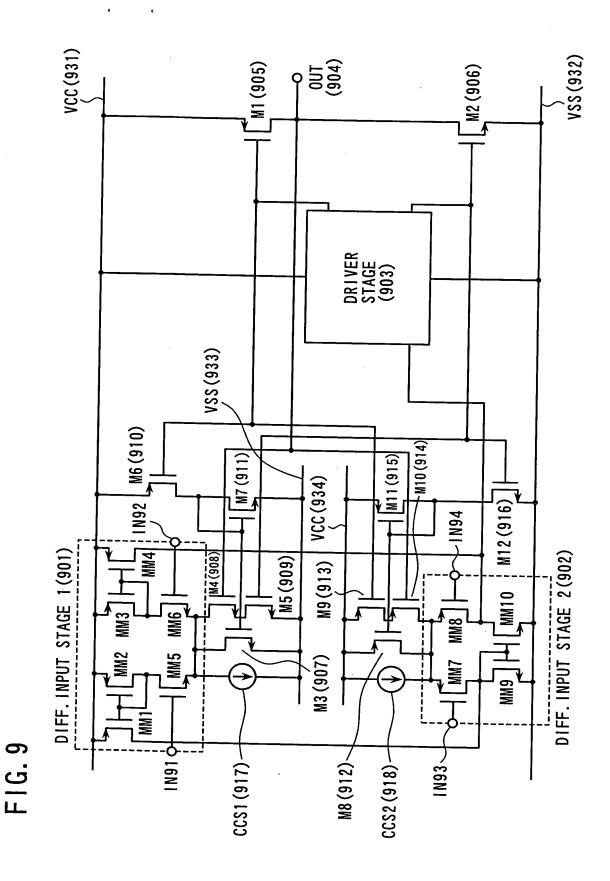




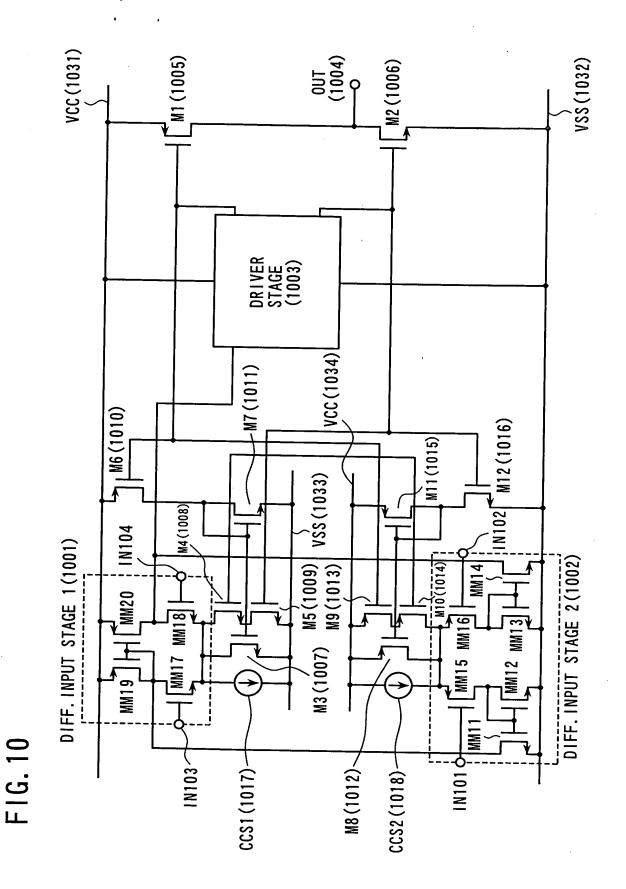
F1G. 7



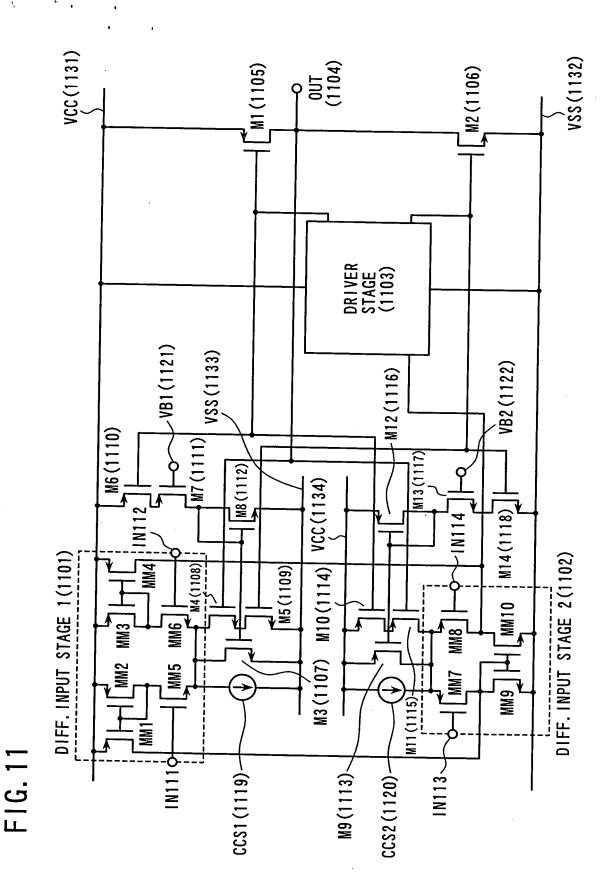
F1G.8



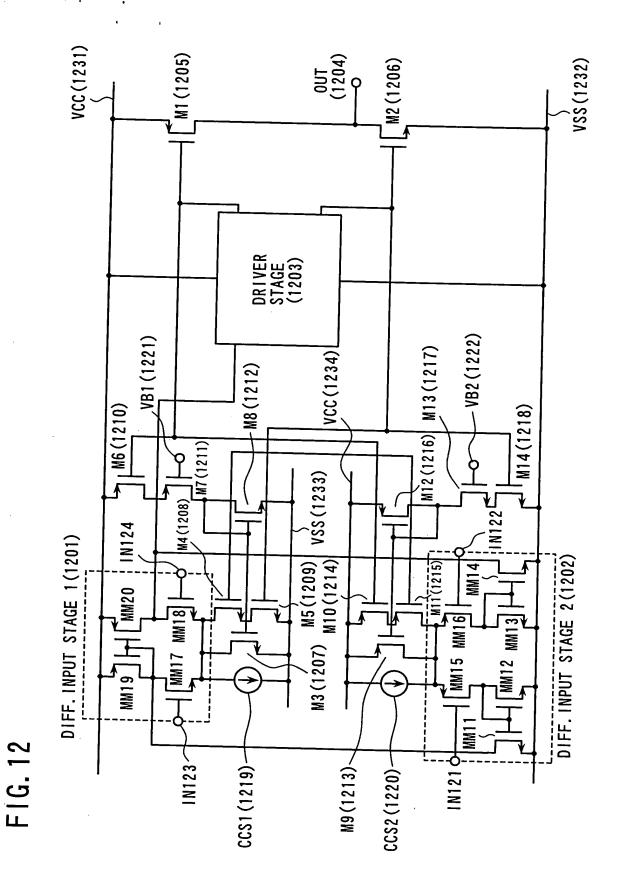


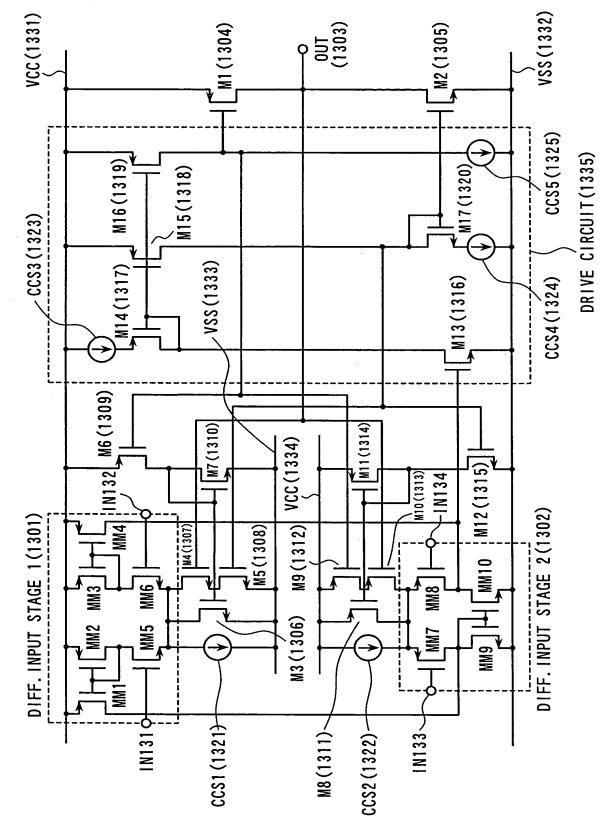




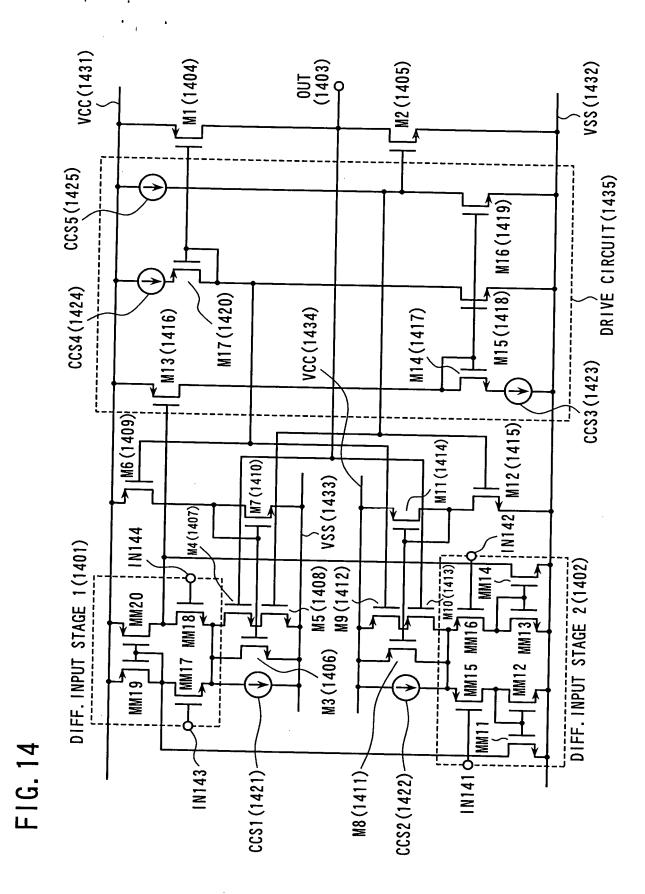


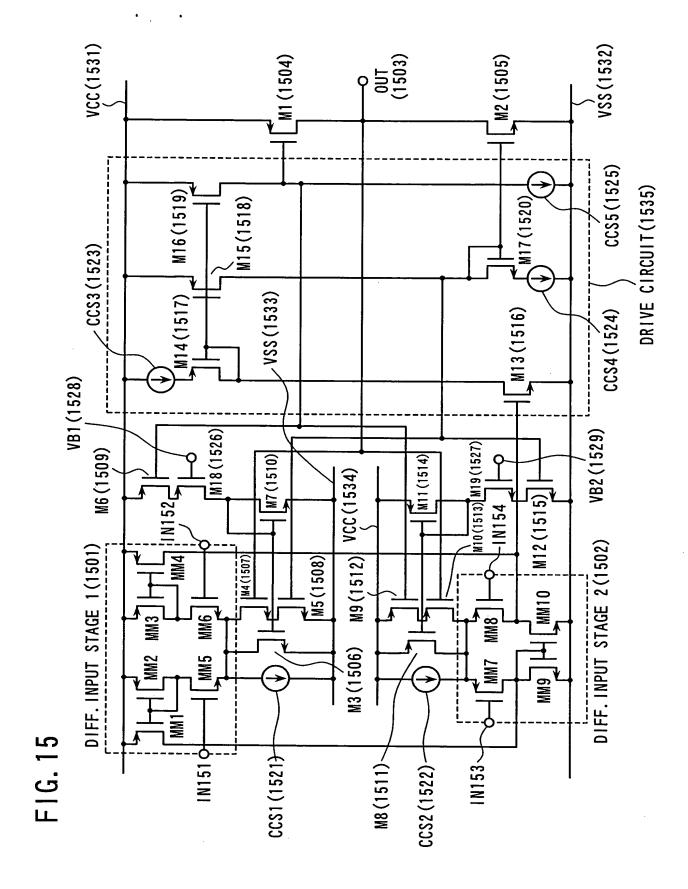


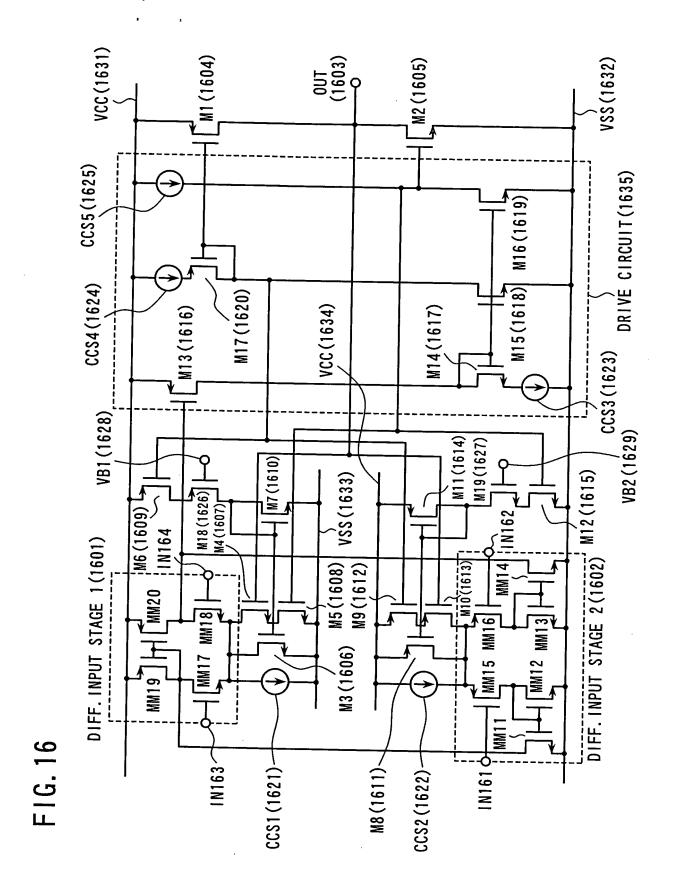




F1G. 13







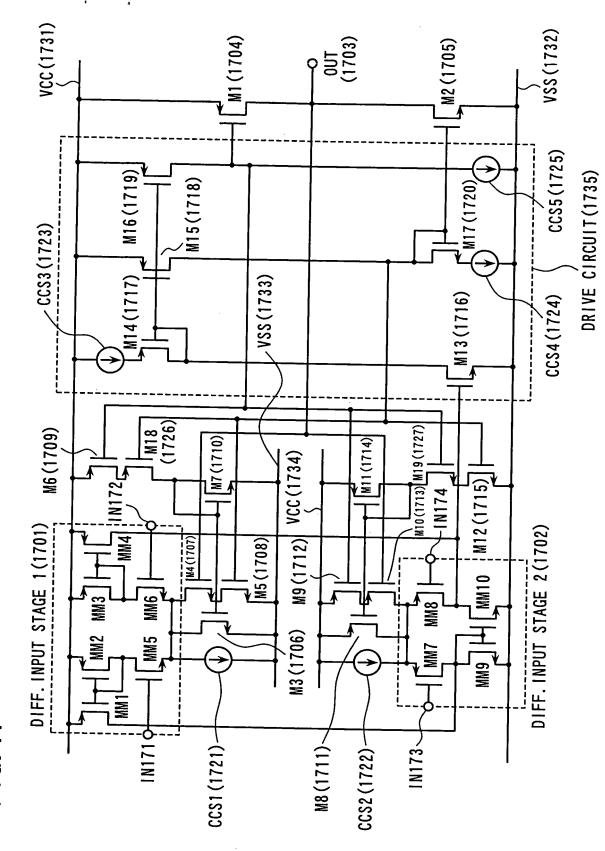
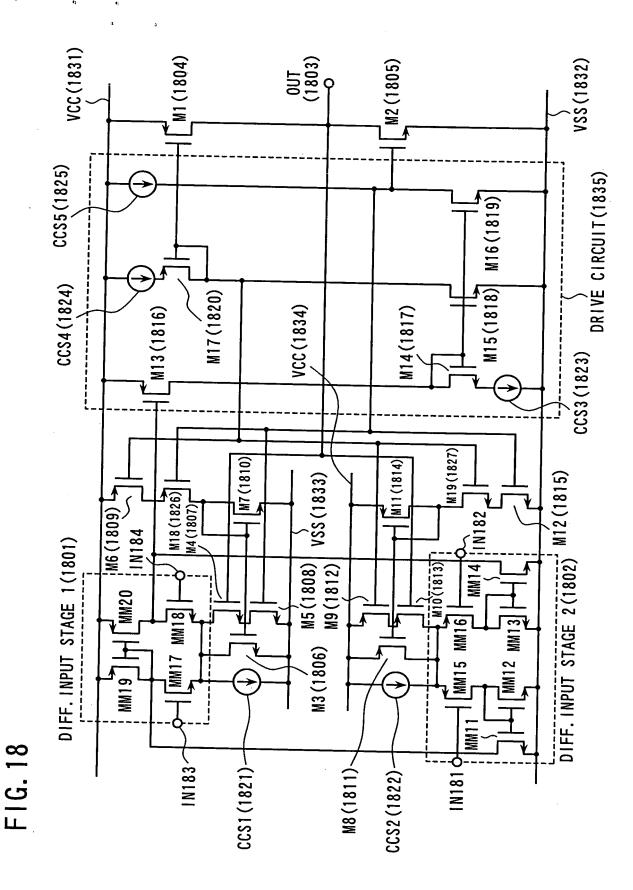
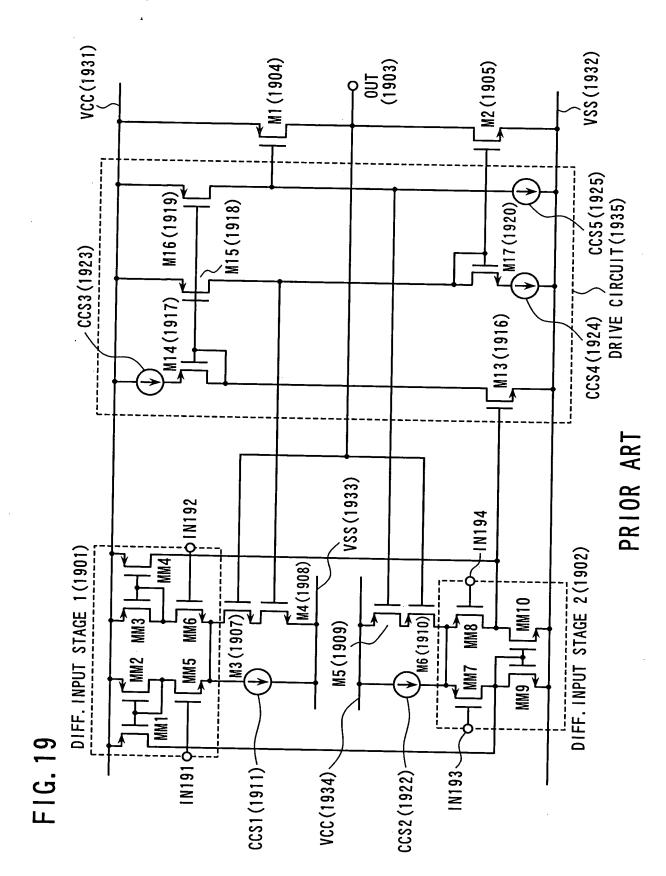


FIG. 17







AMPL I TUDE (V)	VCC=4.0V 3.8-0.2	VCC-4.8V 4.4-0.2	1.00
	UNIT: μ A		
SIMULATION STATIC CURRENT VALUE	23.202	20.786	11.6% INCREASE
SIMULATION RESULT	INVENTION	PRIOR ART	-
F1G. 20A			

20B SIMULATION	AT I ON	OPE	OPERATING CURRENT VALUE (MA)	(A)
RESULT		VCC=4. 0V, Ta=85℃, Vt=H	VCC=4. 6V, Ta=25°C, Vt=C	VCC=4. 0V, Ta=85°C, Vt=H VCC=4. 6V, Ta=25°C, Vt=C VCC=5. 0V, Ta=40°C. Vt=L
INVENTION	TION	26.987	39.848	57.383
PRIOR	ART	24.593	35.504	50 744
		9.7% INCREASE 1	12.2% INCREASE	13.1% INCREASE

SIMULATION			SETTLING	SETTLING TIME (ms)		
RESULT	VCC=4. 0V, T	VCC=4. 0V, Ta=85°C, Vt=H VCC=4. 6V, Ta=25°C, Vt=C VCC=5. 0V, Ta=40°C, Vt=L	VCC=4. 6V, T	a=25°C, Vt=C	VCC=5. 0V,	Ta=40°C, Vt=L
UP or DW	SUT	SDT	SUT	SDT	SUT	SDT
INVENTION	0.840	0.870	0.570	0.630	0.400	0.460
PRIOR ART	1.490	1.570	0.880	0.910	0.590	0.570
	43% DECREASE	45% DECREASE	35% DECREASE	30% DECREASE	32% DECREASE	20% DECREASE

FIG. 21

